

## ABSTRACT OF DISCLOSURE

The present invention relates to a method of changing a recording mode from CAV (Constant Angular Velocity) to CLV (Constant Linear Velocity) mode in the middle of recording data to a disk recording medium. A method according to the present invention reads ATIP-framed data encoded in a wobble signal formed along a spiral physical track while recording input data to a recording medium, detects a sync signal contained in the read ATIP-framed data. Another method measures frequency of a low-frequency component of the wobble signal instead of reading ATIP-framed data. These two methods determines, in common, when to change the recording mode from CAV to CLV based on the period of the detected sync signal or the measured frequency. The present invention makes it possible to record input data to an entire area of a disk more rapidly without fatal errors such as imperfect writing. As a result, total recording time can be reduced with stable recording guaranteed.

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